# **Indiana Trauma Care Committee Meeting**

August 8, 2014

### **District 1**

Franciscan St. Anthony – Crown Point

Franciscan St. Anthony – Michigan City

Franciscan St. Margaret – Dyer

Franciscan St. Margaret - Hammond

IU Health – LaPorte Jasper County

Methodist Northlake

Methodist Southlake

**Portage** 

Porter Regional (Valparaiso)

### **District 2**

Community Hospital of Bremen

Elkhart General

**IU Health – Goshen** 

Kosciusko Community

Memorial Hospital South Bend

Pulaski Memorial

St. Joseph RMC-Mishawaka

### **District 3**

Cameron Memorial

#### **DeKalb Health**

**Dukes Memorial** 

## **Dupont**

Lutheran

Parkview Huntington

Parkview LaGrange

Parkview Noble

Parkview Randallia

Parkview Regional Medical Center

Parkview Whitley

### **District 4**

Franciscan St. Elizabeth - Crawfordsville

Franciscan St. Elizabeth – Lafayette Central

Franciscan St. Elizabeth – Lafayette East

IU Health - Arnett

IU Health - White Memorial

St. Vincent Williamsport

## **District 5**

**Community East** 

**Community North** 

**Community South** 

Eskenazi Health

St. Francis – Indianapolis

St. Francis – Mooresville

**Hancock Regional** 

Hendricks Regional Health

IU Health – Methodist

IU Health – North

IU Health - Riley for Children

Johnson Memorial

Major Hospital

St. Vincent - Indianapolis

Witham Health Services

Witham at Anson

### **District 6**

Community Hospital of Anderson & Madison Co.

## **Community Howard**

Henry County

IU Health - Ball Memorial

#### **IU Health - Blackford**

IU Health - Tipton×

**Marion General** 

Reid Hospital

#### **Rush Memorial**

St. Vincent Anderson

**St. Vincent Mercy** 

### **District 7**

**Greene County General** 

## **Putnam County**

St. Vincent Clay

## **Sullivan County Community**

Terre Haute Regional

**Union Hospital** 

**Union - Clinton** 

<sup>×</sup> hospital reported 0 trauma cases for the quarter

### **District 8**

**Columbus Regional** 

IU Health - Bedford

IU Health – Bloomington

IU Health – Paoli

Monroe Hospital

Schneck Medical Center

St. Vincent Salem

### **District 9**

**Clark Memorial** 

Floyd Memorial

King's Daughters' Health

**Margaret Mary Community** 

St. Catherine Regional

**Scott County Memorial** 

## **District 10**

**Daviess Community** 

Deaconess

**Deaconess Gateway** 

#### **Gibson General**

Good Samaritan

Memorial Hospital & Health Care Center

Perry County Memorial

St. Mary's Medical Center

St. Mary's Warrick

## SUMMARY OF HOSPITALS REPORTING STATUS – Q1 2014

## New to Reporting / Started Reporting Again

- Clark Memorial\*
- Columbus Regional\*
- Community East\*
- Community Howard\*
- Community North\*
- Community South\*
- DeKalb Health\*
- Dupont\*
- Franciscan St. Anthony Michigan City\*
- Gibson General
- Hancock Regional\*
- IU Health Blackford\*
- IU Health Goshen\*
- IU Health LaPorte
- IU Health Paoli\*
- Jasper County\*

#### \* = New to Reporting

## **New to Reporting / Started Reporting Again**

- Kings' Daughters' Health\*
- Margaret Mary Community\*
- Portage\*
- Putnam County\*
- Rush Memorial\*
- Scott County Memorial
- St. Catherine Regional\*
- St. Elizabeth Crawfordsville\*
- St. Joseph RMC Mishawaka\*
- St. Vincent Mercy\*
- St. Vincent Salem\*
- St. Vincent Williamsport\*
- Sullivan County Community
  - \* = New to Reporting

## **Dropped off**

St. Margaret - Hammond

## HOSPITALS TRAINED ON THE TRAUMA REGISTRY (YTD)

- **Adams Memorial**
- Clark Memorial 0
- Community Anderson 0
- Community East
- Community Howard 0
- Community North 0
- Community South 0
- **Daviess Community** 0
- **Deaconess Gateway** 0
- **DeKalb Memorial**
- **Dupont Hospital** 0
- Floyd Memorial
- Gibson General
- Good Samaritan 0
- Greene County General 0
- Hancock Regional 0
- IU Health Bedford 0
- IU Health Blackford
- IU Health LaPorte
- IU Health Morgan 0
- IU Health Paoli
- **Jasper County**
- Jay County 0
- King's Daughters' Health
- Kosciusko Community
- Margaret Mary Health 0

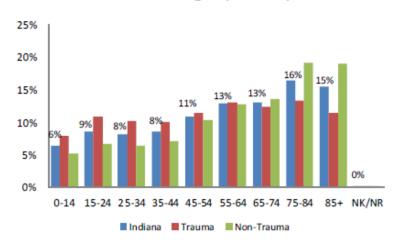
- Memorial (Jasper)
- Memorial (Logansport)
- **Perry County Memorial**
- Porter Regional
- Pulaski Memorial
- **Putnam County**
- Rush Memorial
- **Scott Memorial**
- Schneck Medical Center
- St. Anthony Michigan City
- St. Catherine Regional (Charlestown)
- St. Joseph (Kokomo)
- St. Joseph RMC Mishawaka
- St. Joseph RMC Plymouth
- St. Mary's (Hobart)
- St. Mary's Warrick
- St. Vincent Anderson
- St. Vincent Carmel
- St. Vincent Frankfort
- St. Vincent Mercy
- St. Vincent Randolph
- St. Vincent Salem
- St. Vincent Williamsport
- Sullivan County
- Wabash County
- Woodlawn Hospital

## QUARTER 1 2014 STATEWIDE REPORT

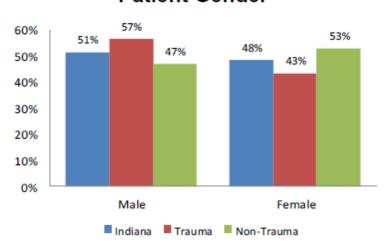
- o 6,824 incidents
- January 1, 2014 to March 31, 2014
- 88 total hospitals reporting
  - 9 trauma centers
  - 79 hospitals

## PATIENT DEMOGRAPHICS - PAGE 2

#### Patient Age (Years)

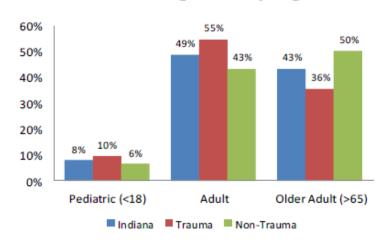


#### **Patient Gender**

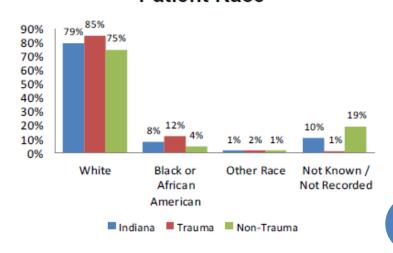


#### There were five unknown ages reported, which represents 0.07% of the data.

#### **Patient Age Groupings**

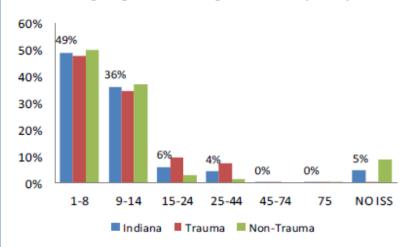


#### **Patient Race**

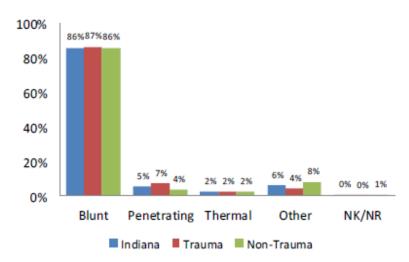


## INJURY - PAGE 3

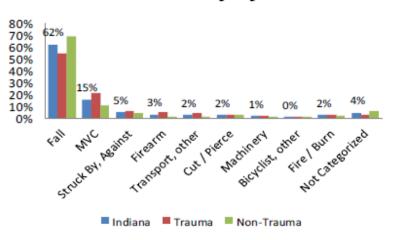
#### Injury Severity Score (ISS)



### Trauma Type

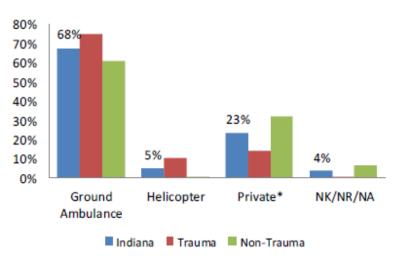


#### Cause of Injury



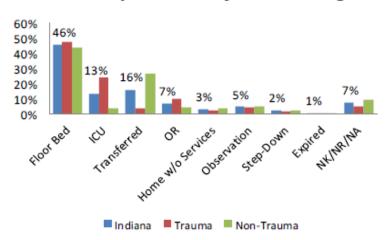
<1% COI: Pedestrian Traffic Accident, Natural/Environment, Fire/Burn, Overexertion, Bites/Stings, No E-Code

### **Transport Mode**



## ED: DISPOSITION / LENGTH OF STAY - PAGE 4

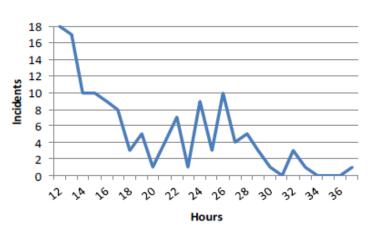
#### ED Disposition by Percentage



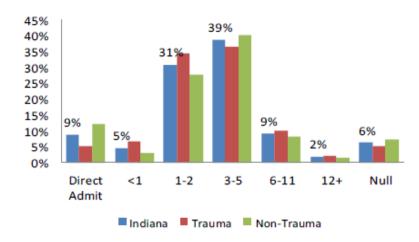
<1% ED Disposition: AMA; Home with Services; Other

N = 133

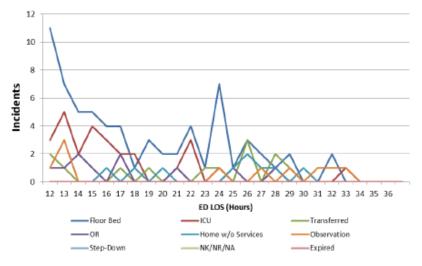
#### ED LOS >12 Hours



### ED Length of Stay (Hours)



#### **ED Disposition for ED LOS >12 Hours**



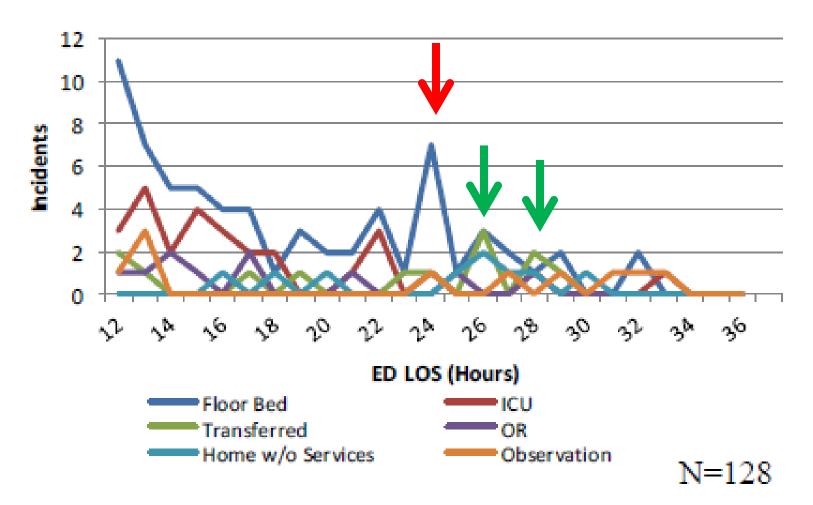
\*One case expired at 19 hours

N = 128

4

## ED: DISPOSITION / LENGTH OF STAY - PAGE 4

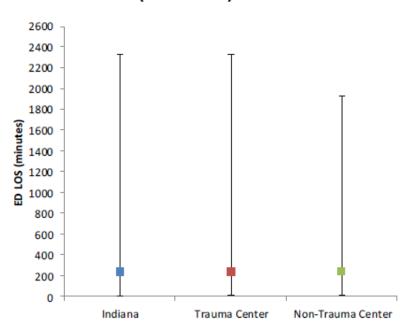
## ED Disposition for ED LOS >12 Hours



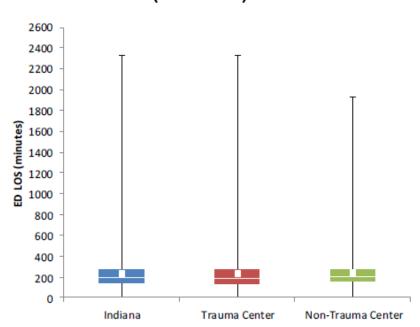
\*One case expired at 19 hours

## ED LENGTH OF STAY: BAR & WHISKER - PAGE 5

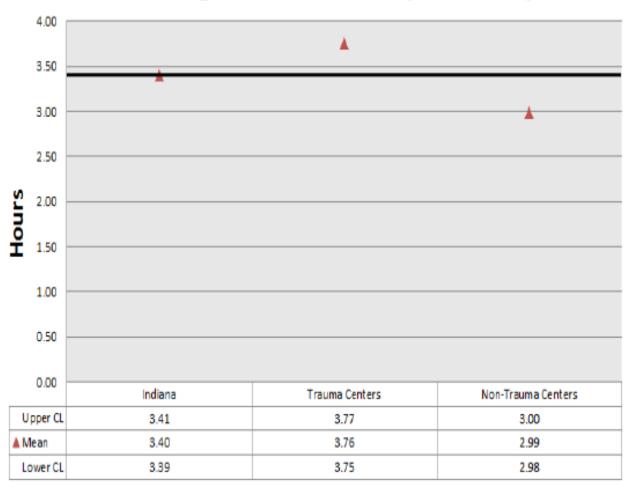
#### **ED LOS (Minutes)- All Patients**



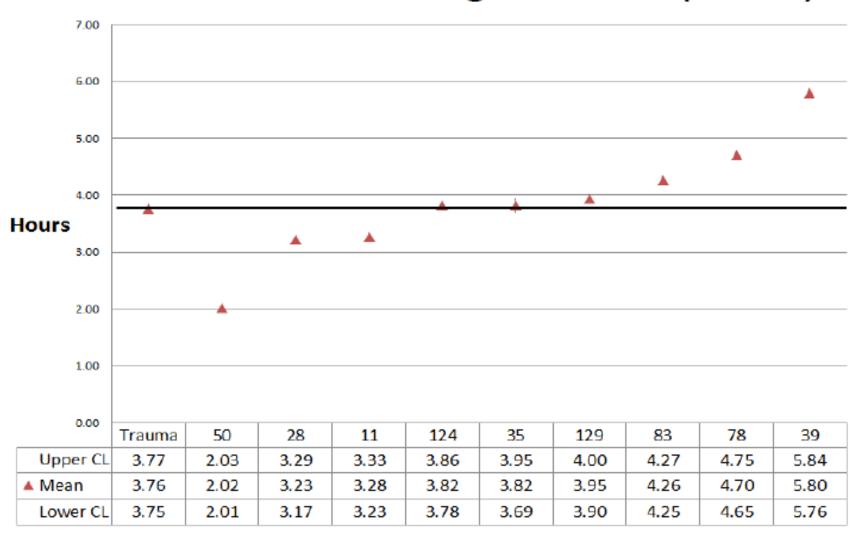
### **ED LOS (Minutes)- All Patients**



## Average ED LOS (Hours)

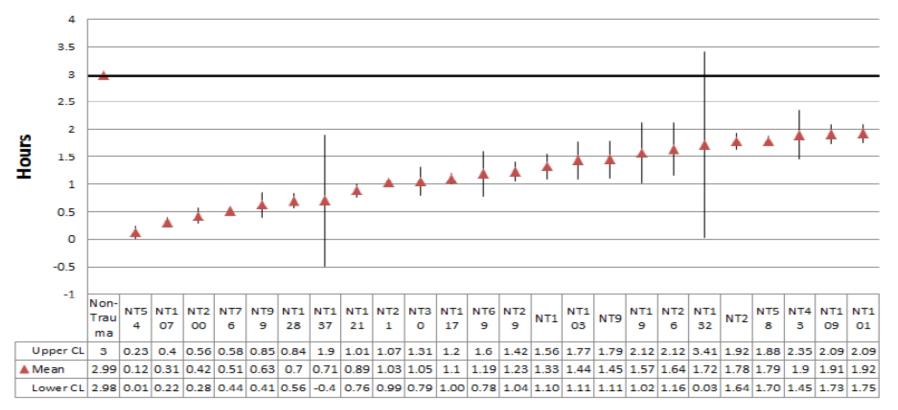


## Trauma Centers-Average ED LOS (Hours)



## All Patients Non-Trauma Centers-

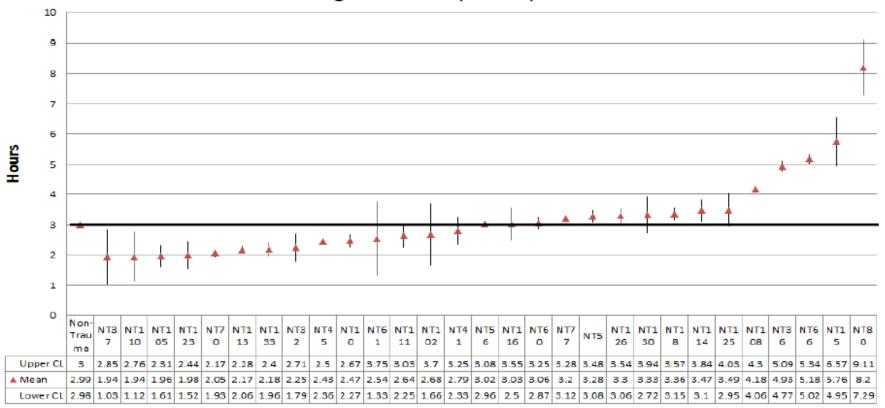
Average ED LOS (Hours)



The purpose of the caterpillar graphs is to compare different groups to the average ED LOS. The Indiana mean is the comparison group, which is represented by the black line.

In the chart above, the data is for the non-trauma centers. The non-trauma center average is in the first column on the left side. Each non-trauma center has been assigned a random number for confidentiality. The mean, 95% confidence limit and lower confidence limit is listed for each group.

## All Patients Non-Trauma CentersAverage ED LOS (Hours)

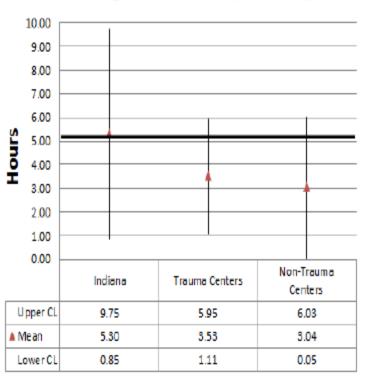


The purpose of the caterpillar graphs is to compare different groups to the average ED LOS. The Indiana mean is the comparison group, which is represented by the black line.

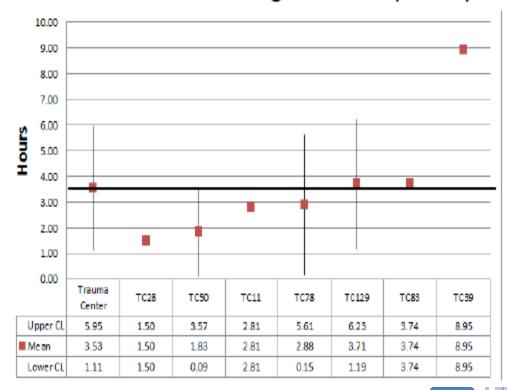
In the chart above, the data is for the non-trauma centers. The non-trauma center average is in the first column on the left side. Each non-trauma center has been assigned a random number for confidentiality. The mean, 95% confidence limit and lower confidence limit is listed for each group.

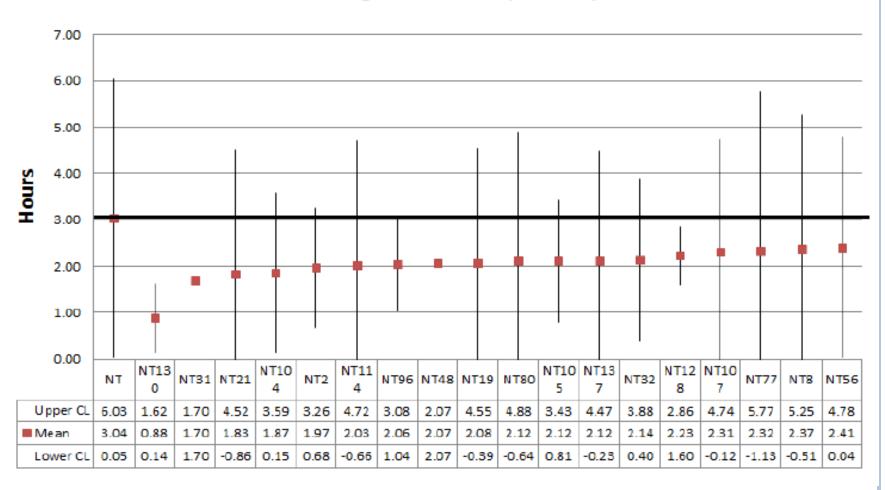
#### **Transferred Patients**

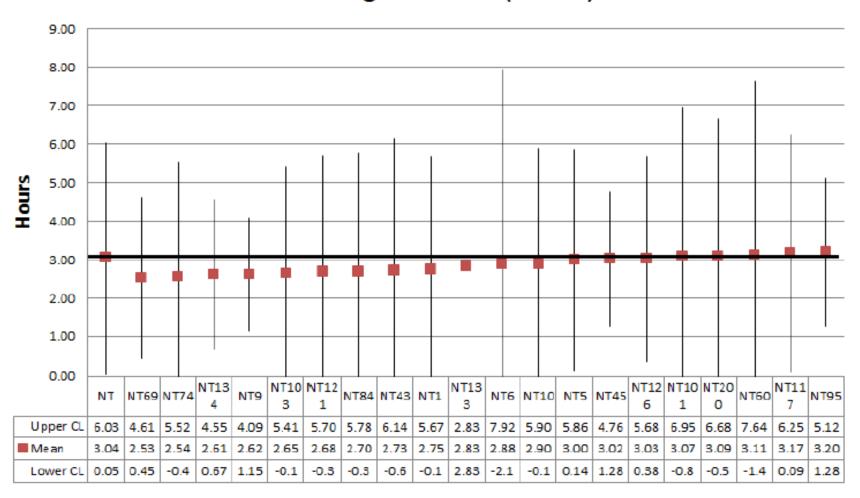
## Average ED LOS (Hours)

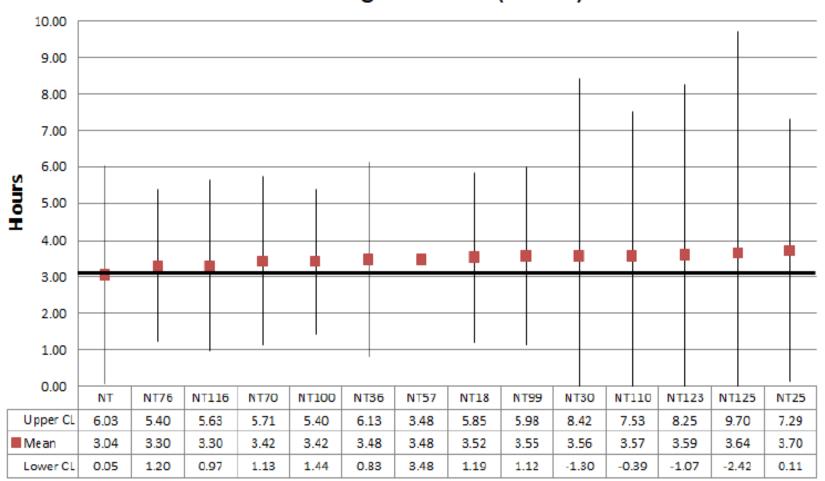


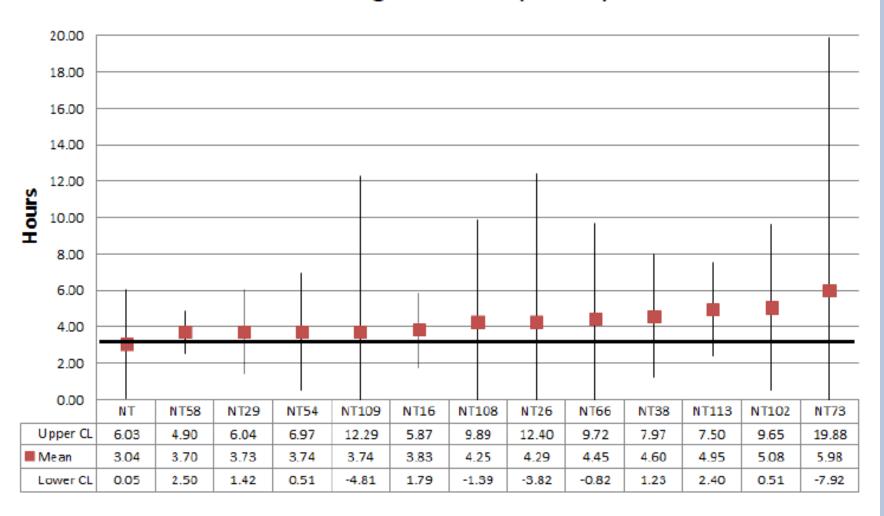
## Trauma Centers-Average ED LOS (Hours)





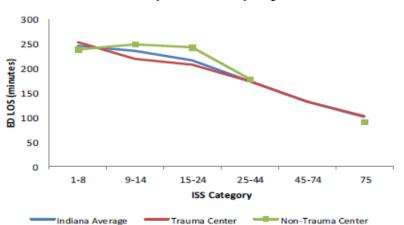




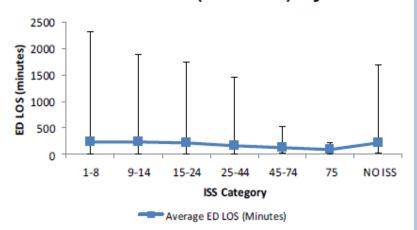


## ED LOS BY ISS - PAGE 14

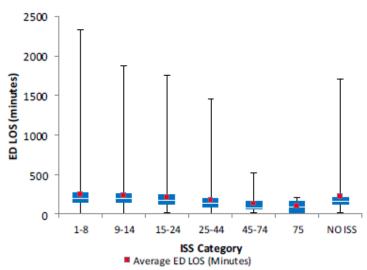
#### ED LOS (Minutes) by ISS



#### ED LOS (Minutes) by ISS



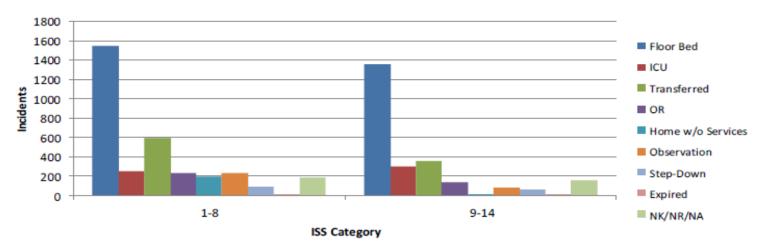
#### ED LOS (Minutes) by ISS



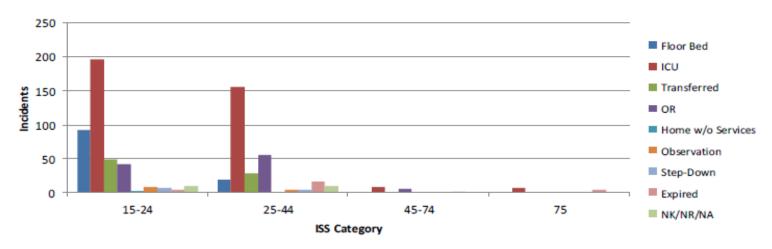
<sup>\*</sup>A table with values for ED LOS by ISS is found on page 28. Note for ED LOS by ISS, there were 22 cases at Non-Trauma Centers with ISS greater than 45.

## ED DISPOSITION BY ISS - PAGE 15

#### ED Disposition by ISS



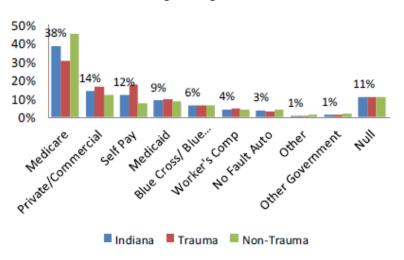
#### ED Disposition by ISS 15-75



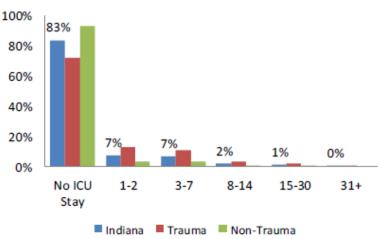
ED Disposition <1%: AMA; Home with services; Other (Jail, Mental Institution, etc.). Please note the difference in axis scale between the top and bottom graphs. \*A table with values for ED Disposition by ISS is found on page 28.

## PATIENT OUTCOMES— PAGE 16

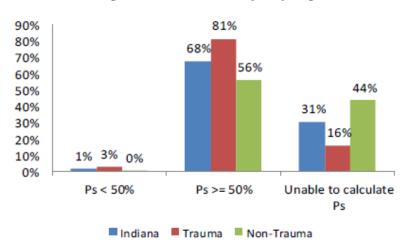
#### Primary Payer Mix



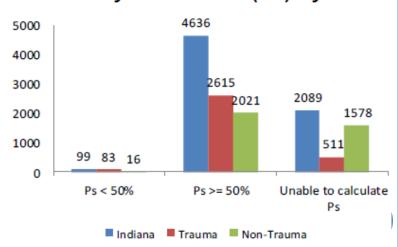
## ICU Length of Stay (Days)



### Probability of Survival (Ps) by Percent



#### Probability of Survival (Ps) by Count



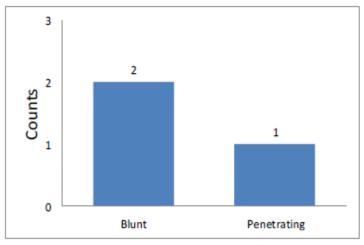
Due to the many data points required to calculate Ps, not every patient has a calculated Ps. These two graph represents 4,735 incidents with calculated Ps.

## Cases to Review – Page 17

## ED Disposition of Expired for Ps ≥50%, N=3

Patients with Ps ≥50% Expired in ED, N=3		
Gender	1 Female, 2 Males	
Average Age	65.3 years (30-89 years)	
Facilities	2 Non-Trauma Centers 1 Trauma Center	
Transport Type	2 Ground ambulance; 1 Not Known	
Cause of Injury	2 Falls, 1 Firearm	
Inter-Facility Transfer	1 Yes; 2 No	
Average Distance from Scene to Facility	13 miles (4.9-28.8 miles)	
Signs of Life	3 Arrived with signs of life	

## Trauma Type



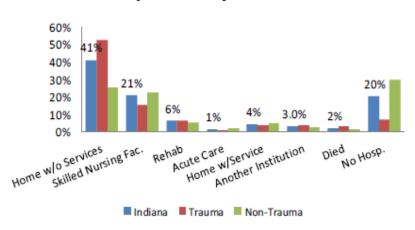
	Trauma Type	ISS	RTS- GCS Scale	RTS- Systolic Scale	RTS- Respiratory Scale	Revised Trauma Score (RTS)	B Value	PS	Signs of life
1	Blunt	17	4	4	3	7.55	2.49	0.9234	Arrived with signs of Life
2	Penetrating	9	0	4	3	3.8	0.66	0.6584	Arrived with signs of Life
3	Blunt	10	4	4	3	7.55	3.08	0.9559	Arrived with signs of Life

## **ED DISPOSITION = EXPIRED**

- When should we present these to the TCC?
  - Past: When Ps>=50
- What variables should we look at?
  - ISS
  - Ps
  - What is useful?

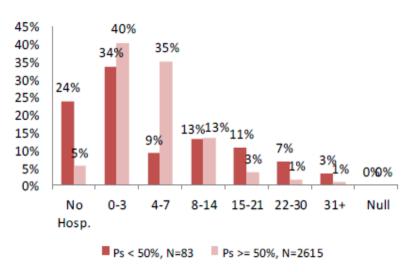
## HOSPITAL DISPOSITION / LENGTH OF STAY - PAGE 18

#### **Hospital Disposition**

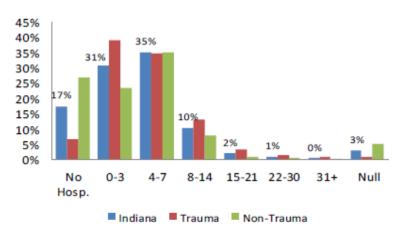


\*There are new categories for the Hospital Disposition for the 2014 Data Dictionary <1%: null, psych., long term care hospital, AMS, hospice, intermediate care

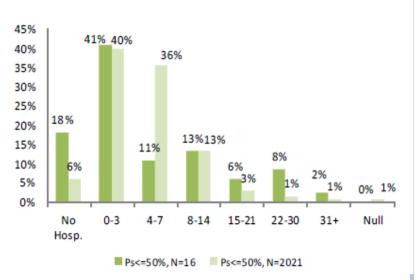
#### Hospital LOS (days) by Ps Trauma Centers



#### Hospital Length of Stay (days)

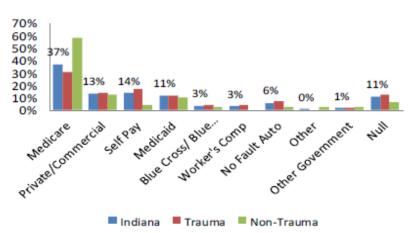


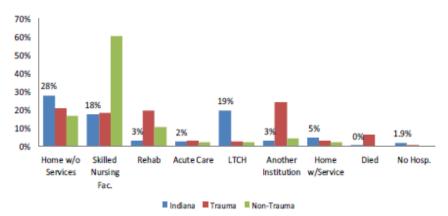
#### Hospital LOS (days) by Ps Non-Trauma Centers



## HOSPITAL LENGTH OF STAY > 15 DAYS - PAGE 19

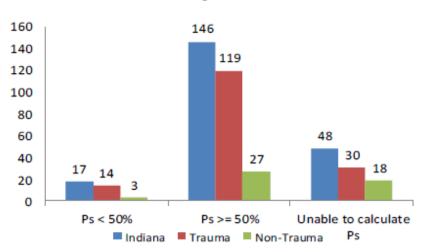
## Hospital Length of Stay > 15 days, N=230 Primary Payer Mix Hospital Disposition



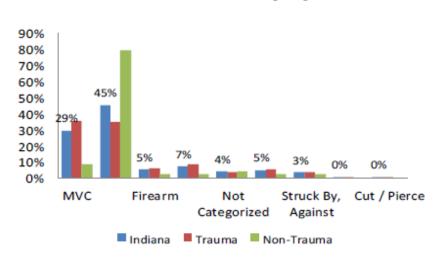


<sup>\*</sup>There are new categories for the Hospital Disposition for the 2014 Data Dictionary

#### **Probability of Survival**



#### Cause of Injury



## Transfer Cases Cover Page – Page 20

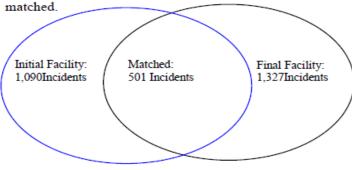
## Indiana Trauma Registry

#### Statewide Quarter 1 Data Report January 1, 2014 to March 31, 2014 6,824 Incidents

88 Total Hospitals Reporting
Trauma Centers: 9 facilities 47.03%

Trauma Centers: 9 facilities 47.03% of data (Non-Trauma) Hospitals: 79 facilities 52.97% of data

For Quarter 1 2014, of the 6,824 incidents reported to the Indiana Trauma Registry, 1,090 cases that had an ED Disposition of "Transferred to another acute care facility" at the initial facility or that had the Inter-Facility Transfer equal to "Yes" at the Trauma Center. Of those transferred, 501 cases were probabilistically matched. The linked cases make up 14.7% of the Q1 2014 data. All public health preparedness districts are represented. The diagram below illustrates the overlap between the transfers reported from the initial facility and from the final facility that can be



The initial facility in which transfers come from may be considered Critical Access Hospitals (CAHs). All Indiana CAHs are considered Rural, and must meet additional requirements to have a CAH designation, such as having no more than 25 inpatient beds and being located in a rural area. Facilities that are highlighted indicate that this facility reported data for Quarter 1, 2014.

Within this transfer data section, the purple columns represent the transfer cases and the single percentages represent the percent for the transfer cases. For two demographic variables, patient age groupings and gender, the Indiana average is included to provide more insight to this transfer population.

	Indiana Critical Access Hospitals (CAHs)					
	Adams Memorial Hospital	Pulaski Memorial Hospital				
	Cameron Memorial Community Hospital	Putnam County Hospital				
\	Community Hospital of Bremen	Rush Memorial Hospital				
1	Decatur County Memorial Hospital	Scott Memorial Hospital				
1	Dukes Memorial Hospital	St. Mary's Warrick Hospital				
/	Gibson General Hospital	St. Vincent – Clay Hospital				
	Greene County General Hospital	St. Vincent – Dunn Hospital				
	Harrison County Hospital	St. Vincent – Frankfort Hospital				
	IU Health – Bedford Hospital	St. Vincent – Jennings Hospital				
	IU Health – Blackford Hospital	St. Vincent – Mercy Hospital				
	IU Health – Paoli Hospital	St. Vincent – Randolph Hospital				
	IU Health – Tipton Hospital	St. Vincent- Salem Hospital				
	IU Health – White Memorial Hospital	St. Vincent – Williamsport Hospital				
	Jasper County Hospital	Sullivan County Community Hospital				
	Jay County Hospital	Union Hospital Clinton				
	Margaret Mary Community Hospital	Wabash County Hospital				
	Parkview LaGrange Hospital	Woodlawn Hospital				
	Perry County Memorial Hospital					
	Indiana Rural Hospitals					
	Columbus Regional Hospital	Kosciusko Community Hospital				

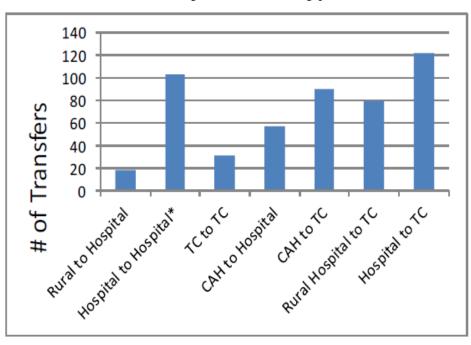
	•
Columbus Regional Hospital	Kosciusko Community Hospital
Fayette Regional Health System	Marion General Hospital
Franciscan St. Anthony Health - Michigan City	Memorial Hospital (Logansport)
Franciscan St. Elizabeth Health – Crawfordsville	Memorial Hospital & Health Care Center (Jasper)
Good Samaritan Hospital	Parkview Noble Hospital
Henry County Memorial Hospital	Reid Hospital & Health Care Services
IU Health – LaPorte Hospital	St. Joseph's Regional Medical Center – Plymouth
IU Health – Starke Hospital	Schneck Medical Center
King's Daughters' Health	

## TRANSFER PATIENT: FACILITY TYPE - PAGE 21

#### **Facility to Facility Transfers**

For Transfer Patients:			
Initial Hospital Type	Final Hospital Type	Incident Counts	
Rural Hospital	Hospital	18	
Hospital	Hospital	103	
Trauma Center	Trauma Center	31	
Critical Access Hospital	Hospital	57	
Critical Access Hospital	Trauma Center	90	
Rural Hospital	Trauma Center	79	
Hospital	Trauma Center	122	

#### **Facility Transfer Type**



Rural = Rural Hospital; TC = ACS Verified Trauma Center; CAH = Critical Access Hospital; Hospital = does not fall into above categories

## Transfer Patient Data Averages – Page 22

#### For Linked Transfer Patients:

For Transfer Patients:				
	All Transfer Patients	<u>Critical*</u> Transfer Patients	<u>Physiological Critical**</u> Transfer Patients	
Number of Patients	501	315	300	
EMS Notified to Scene	8.7 minutes	8.9 minutes	9.1 minutes	
EMS Scene Arrival to Departure	16.7 minutes	16.6 minutes	16.8 minutes	
EMS Scene Depar- ture to Initial Hospi- tal ED Arrival	21.8.0 minutes	58.6 minutes	63.4 minutes	
Initial Hospital ED Arrival to Departure	2 hours 59 minutes	2 hours 54 minutes	2 hours 54 minutes	
Initial Hospital ED Departure to Final Hospital ED Arrival  1 hour 5 minutes		1 hour 3 minutes	1 hour 5 minutes	
TOTAL TIME	4 hours 51 minutes	4 hours 44 minutes	4 hours 47 minutes	

<sup>\*</sup>Critical patient is defined as having a GCS ≤ 12, OR Shock Index > 0.9 OR ISS > 15 at the initial hospital.

<sup>\*\*</sup>Physiological Critical Transfer patient is defined as having a Shock Index > 0.9 OR GCS ≤ 12 at the initial hospital.

## Transfer Patient Data Averages – Page 22

For Transfer Patients:		
	All Transfer Patients	
Number of Patients	501	
EMS Notified to Scene	8.7 minutes	
EMS Scene Arrival to Departure	16.7 minutes	
EMS Scene Depar- ture to Initial Hospi- tal ED Arrival	21.8.0 minutes	
Initial Hospital ED Arrival to Departure	2 hours 59 minutes	
Initial Hospital ED Departure to Final Hospital ED Arrival	1 hour 5 minutes	
TOTAL TIME	4 hours 51 minutes	

## Transfer Patient Data Averages – Page 22

	<u>Critical*</u> Transfer Patients
Number of Patients	315
EMS Notified to Scene	8.9 minutes
EMS Scene Arrival to Departure	16.6 minutes
EMS Scene Departure to Initial Hospital ED Arrival	58. minutes
Initial Hospital ED Arrival to Departure	2 hours 42 minutes
Initial Hospital ED Departure to Final Hospital ED Arrival	59 minutes
TOTAL TIME	4 hours 25 minutes

Critical Patient defined as:

- ISS > 15 OR
- GCS ≤ 12 OR
- Shock Index > 0.9

## Transfer Patient Data Averages – Page 22

	<u>Physiological</u> <u>Critical**</u> Transfer Patients
Number of Patients	64
EMS Notified to Scene	8 minutes
EMS Scene Arrival to Departure	14 minutes
EMS Scene Departure to Initial Hospital ED Arrival	16 minutes
Initial Hospital ED Arrival to Departure	2 hours 35 minutes
Initial Hospital ED Departure to Final Hospital ED Arrival	56 minutes
TOTAL TIME	4 hours 6 minutes

Physiological Critical Patient defined as:

- GCS ≤ 12 OR
- Shock Index > 0.9

# TRANSFER PATIENT DATA – PAGE 23

For Transfer Patients:				
Public Health Preparedness District Initial Hospital	Public Health Preparedness District Final Hospital	Incident Counts		
1	1	6		
1	2	7		
1	5	5		
2	2	11		
2	3	13		
2	5	2		
3	3	73		
3	5	2		
4	4	9		
4	5	26		
5	5	69		

For Transfer Patients:				
Public Health Preparedness District Initial Hospital	Public Health Preparedness District Final Hospital	Incident Counts		
6	3	13		
6	5	48		
6	6	5		
7	5	48		
7	7	13		
7	8	9		
7	10	1		
8	5	27		
8	8	24		
8	10	1		
10	5	7		
10	10	48		

## TRANSFER PATIENT DATA - PAGE 24

## For Linked Transfer Patients:

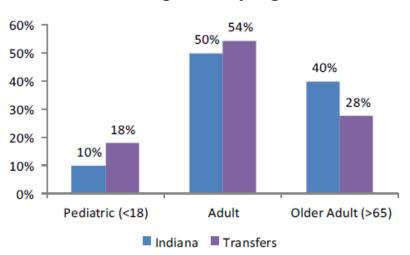
For All Transfer Patients:					
	All Transfer Patients	<u>Critical*</u> Transfer Patients	<u>Physiological Critical**</u> Transfer Patients		
Number of Patients	337	101	64		
Total Time	4 hours 52 minutes	4 hours 25 minutes	4 hours 6 minutes		
Total Mileage	59.67	74	72		
Injury Scene to Initial Hospital Mileage***	9.98	15	14		
Initial Hospital to Final Facility Mileage	49.69	59	58		

## **Estimated Average Distance (miles) by Region (region of final hospital):**

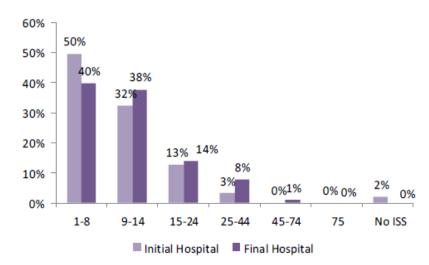
Region	Injury Scene to Initial Facility Mileage*	Initial Facility to Final Facility Mileage	Total Mileage	Drive Count	Air Count
Indiana Average	9.98	49.69**	59.67	273	57
North Region	6.27	32.61	38.88	79	6
Central Region	10.51	54.60	65.11	176	50
South Region	20.34	46.44	66.78	18	1

## TRANSFER PATIENT POPULATION – PAGE 25

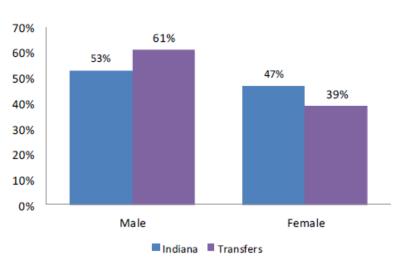
#### **Patient Age Groupings**



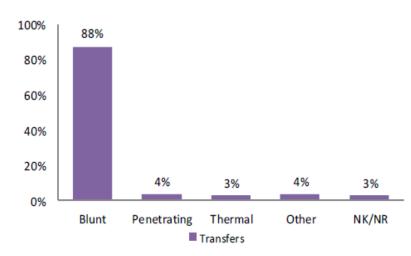
## Injury Severity Score (ISS)



#### Patient Gender



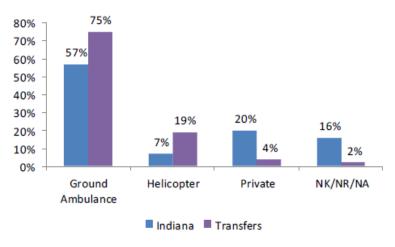
### Trauma Type- Final Hospital



10

## TRANSFER PATIENT POPULATION - PAGE 26

#### Transport Mode- Final Hospital



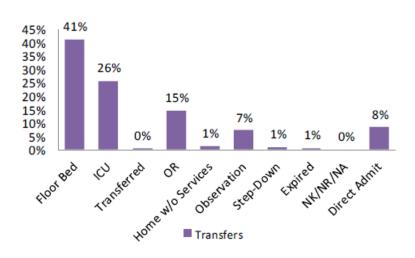
<1% Transport Mode: Police, Other

\* Indicates Private/ Public Vehicle, Walk-in

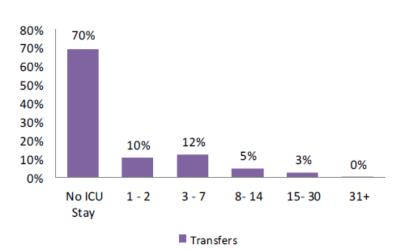
## ED Length of Stay (hours)- Final Hospital



#### **ED Disposition by Percentage- Final Hospital**



## ICU Length of Stay (days)- Final Hospital

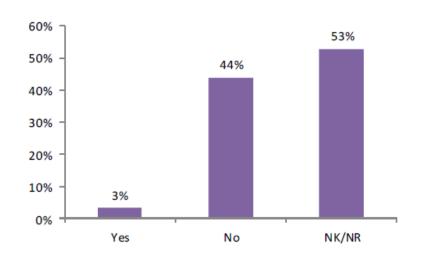


## TRANSFER PATIENT POPULATION – PAGE 27

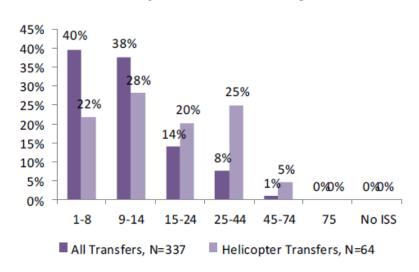
### Discharge Disposition-Final Hospital



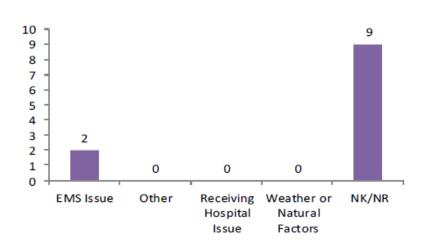
#### Transfer Delay Indicated- Initial Hospital



### Helicopter Transfers by ISS



#### Initial Facility Transfer Delay Reason-Initial Hospital



## Trauma Care Committee Requests – Page 30

## Indiana State Department of Health Indiana Trauma Registry

Hospitals Reporting Trauma Data Quarter 4, 2013

## H Trauma Centers

Deaconess Hospital
Eskenazi Health
IU Health - Methodist Hospital
Lutheran Hospital of Indiana
Memorial Hospital of South Bend
Parkview Regional Medical Center
Riley Hospital for Children at IU Health
St. Mary's Medical Center of Evansville
St. Vincent Indianapolis Hospital

## III the Process" Hospital\*

IU Health - Ball Memorial Hospital

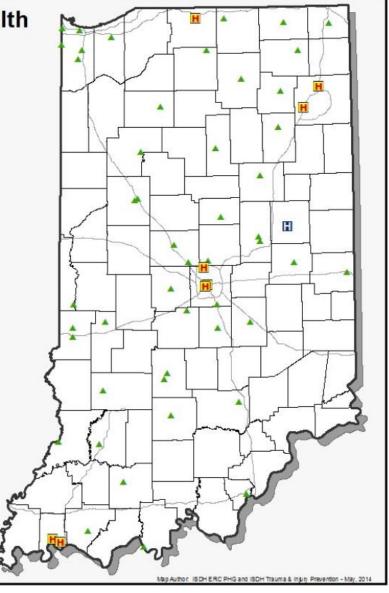
## ▲ Non-Trauma Hospitals

50 Non-Trauma Hospitals

Quarter 4 2013: October 1- December 31, 2013

\* Considered a trauma center for purposes of the triage and transport rule.





# QUESTIONS?

## LINKED DATA BETWEEN TRAUMA & EMS

• 756 probabilistically linked cases for Q1 2014 between the EMS Registry and Trauma Registry!!!

# WHAT TO DO NOW?

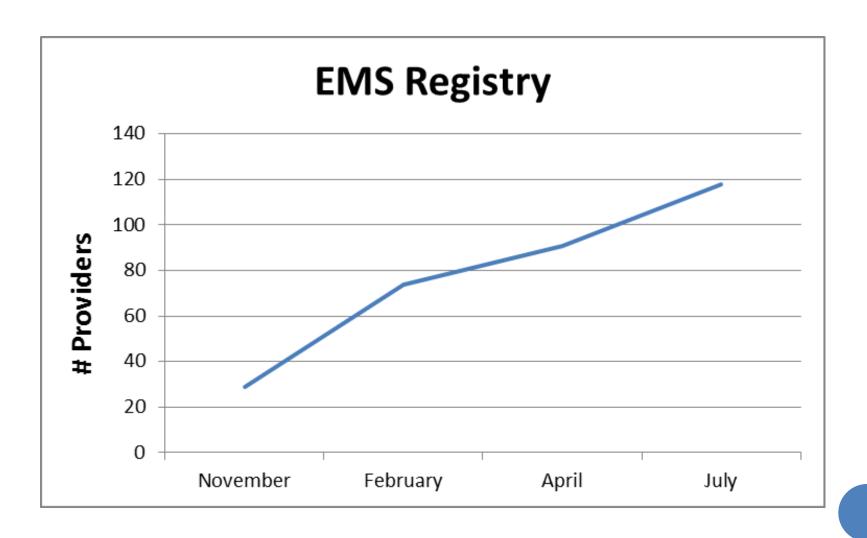
Total GCS 1-10			Total GCS 11+		
Medication Given by EMS	Frequenc	Percent	Medication Given by EMS	Frequenc	Percent
Albuterol Sulfate	0	0.0%	Albuterol Sulfate	1	0.2%
Amiodorone (Cordarone)	0	0.0%	Amiodorone (Cordarone)	1	0.2%
Amyl Nitrate	0	0.0%	Amyl Nitrate	1	0.2%
Aspirin (ASA)	0	0.0%	Aspirin (ASA)	6	1.1%
Dextrose 10% (D10)	0	0.0%	Dextrose 10% (D10)	1	0.2%
Dextrose 50% (D50)	0	0.0%	Dextrose 50% (D50)	1	0.2%
Diphenhydramine (Benadryl)	0	0.0%	Diphenhydramine (Benadryl)	1	0.2%
Dopamine	1	1.9%	Dopamine	2	0.4%
Epinephrine 1:10,000	2	3.7%	Epinephrine 1:10,000	1	0.2%
Etomidate	0	0.0%	Etomidate	1	0.2%
Fentanyl	1	2.0%	Fentanyl	11	2.0%
Furosemide (Lasix)	0	0.0%	Furosemide (Lasix)	1	0.2%
Glucagon	0	0.0%	Glucagon	1	0.2%
Glucose (Oral)	0	0.0%	Glucose (Oral)	2	0.4%
Heparin	0	0.0%	Heparin	1	0.2%
Lactated Ringers	0	0.0%	Lactated Ringers	1	0.2%
Hydromorphone (Dilaudid)	0	0.0%	Hydromorphone (Dilaudid)	10	1.8%
Lorazepam (Ativan)	0	0.0%	Lorazepam (Ativan)	1	0.2%
Morphine Sulfate	0	0.0%	Morphine Sulfate	5	0.9%
Nitroglycerin	0	0.0%	Nitroglycerin	6	1.1%
Normal Saline	0	0.0%	Normal Saline	11	2.0%
Not Applicable	28	51.9%	Not Applicable	263	46.9%
Not Available	0	0.0%	Not Available	5	0.9%
Not Known	13	24.1%	Not Known	130	23.2%
Ondansetron (Zofran)	0	0.0%	Ondansetron (Zofran)	19	3.4%
Oxygen	7	13.0%	Oxygen	68	12.1%
Oxygen (non-rebreather mask)	0	0.0%	Oxygen (non-rebreather mask)	1	0.2%
Oxygen by Blow By	0	0.0%	Oxygen by Blow By	0	0.0%
Oxygen by Nasal Cannula	0	0.0%	Oxygen by Nasal Cannula	8	1.4%
Terbutaline (Brethine)	1	2.0%	Terbutaline (Brethine)	0	0.0%
Thiamine	1	2.0%	Thiamine	0	0.0%
Vasopressin	0	0.0%	Vasopressin	1	0.2%
	54	100%	P	561	100%

## ISDH EMS REGISTRY DATA

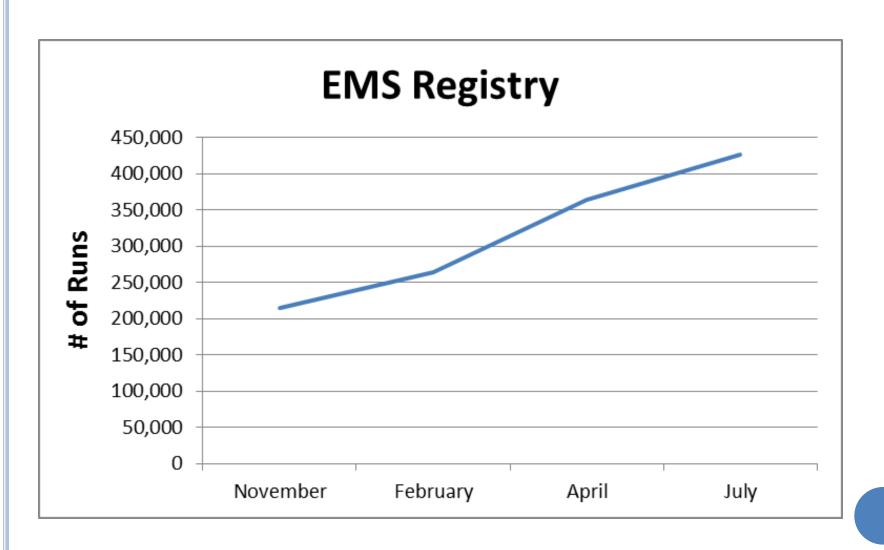
- o 36,890 *traumatic injury* incidents
  - Possible Injury indicated
  - Provider Primary Impression
  - Provider Secondary Impression
  - Complaint Reported by Dispatch is trauma injury
- January 1, 2013 to July 1, 2014
- 118 total providers reporting

426,923+ runs in the ISDH EMS Registry

## ISDH EMS REGISTRY DATA



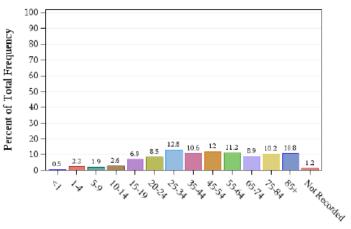
## ISDH EMS REGISTRY DATA





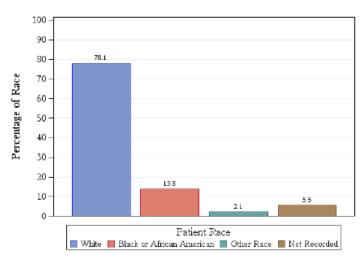
#### Indiana Trauma Registry- Prehospital Data Report 28,308 Traumatic Injury Incidents\* 01/01/2013 - 4/30/2014 91 Total Providers Reporting

### Patient Age Groupings (Years)



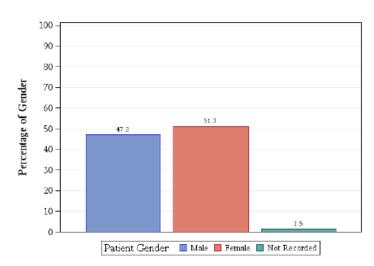
Patient Age Groupings (Years)

#### **Patient Race**

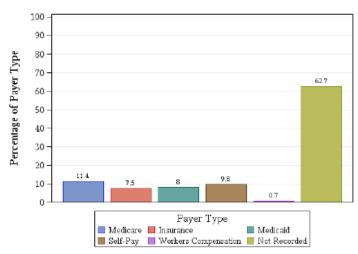


<1% Race: Asian, Native Hawaiian, American Indian/Alaskan Native

#### **Patient Gender**

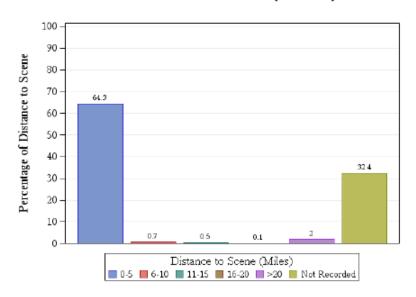


### **Payer Type**

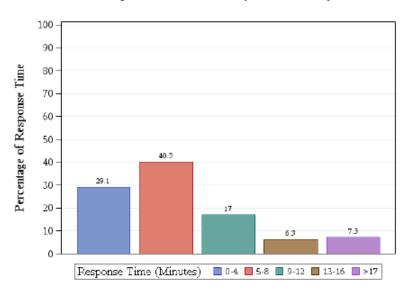


\*Traumatic Injuries include the following criteria: Possible Injury indicated, or Provider Primary or Secondary Impression is Traumatic Injury, or Complaint Reported by Dispatch is Traumatic Injury

## Distance to Scene (Miles)

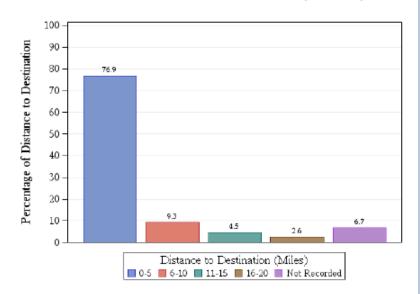


## Response Time (Minutes)

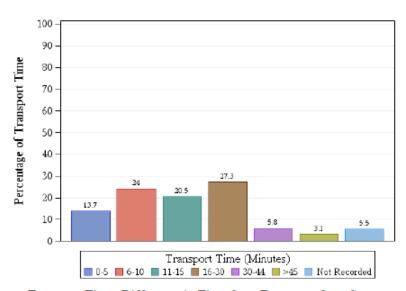


Response Time: Difference in Time from Dispatch to Arrival on Scene

## **Distance to Destination (Miles)**

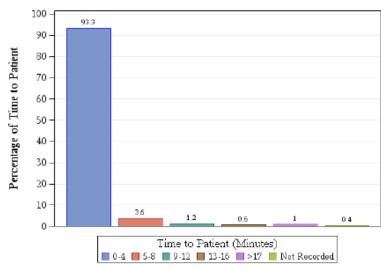


### Transport Time (Minutes)



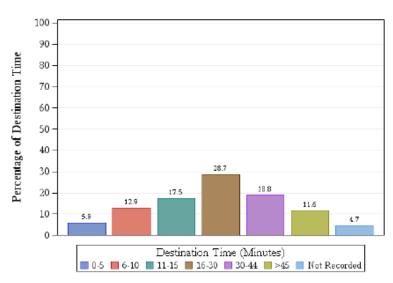
Transport Time: Difference in Time from Departure from Scene to Arrival At Destination

### Time to Patient (Minutes)



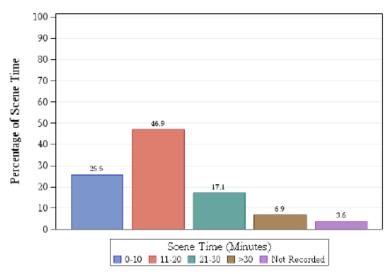
Time To Patient: Difference in Time from Arrival at Scene

## **Destination Time (Minutes)**



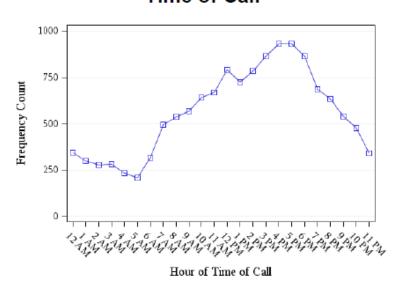
Scene Time: Difference in Time from Arrival at Destination to Unit Back in Service

## Scene Time (Minutes)



Scene Time: Difference in Time from Arrival at Scene

#### Time of Call

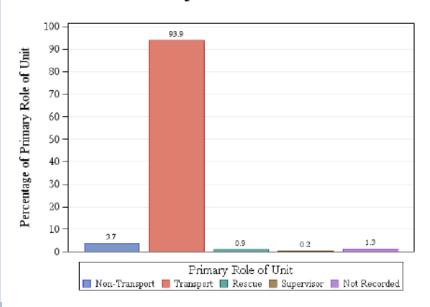


Time of Call Not Recorded for 14,894 Incidents

## Average Run Mileage

Obs	Destination	Miles
1	Mileage to Scene	1.4
2	Mileage to Destination	2.8
3	Total Mileage	5.4

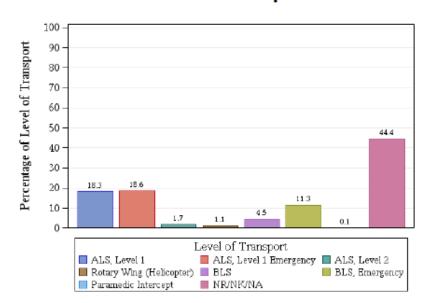
## **Primary Role of Unit**



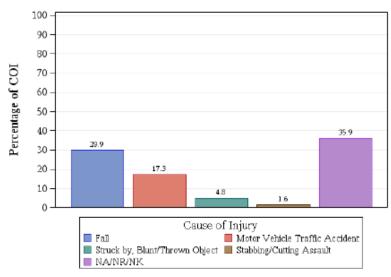
## Average Run Time (Minutes)

Obs	Destination	Minutes
1	Time to Scene	8.19
2	Time to Patient	1.91
3	Time at Scene	16.45
4	Time to Destination	15.67
5	Back in Service	25.21
6	Total Run Time	59.77

## **Level of Transport**

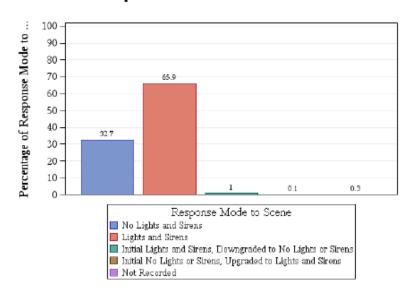


## Cause of Injury (COI)

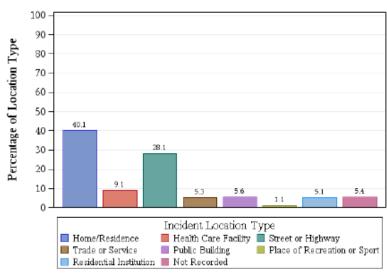


Causes of Injury <1.5% Not Listed

## Response Mode to Scene

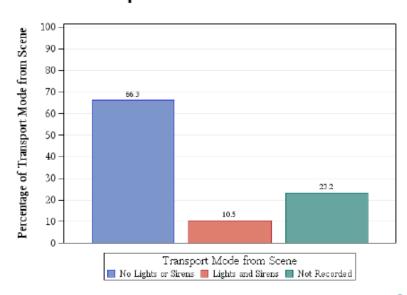


## **Incident Location Type**

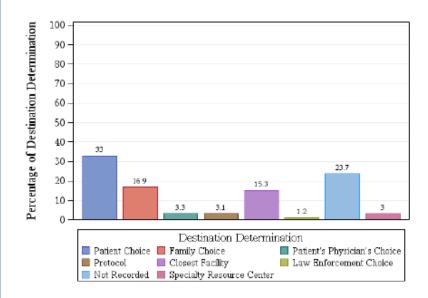


Incident Location Type <1% Not Listed

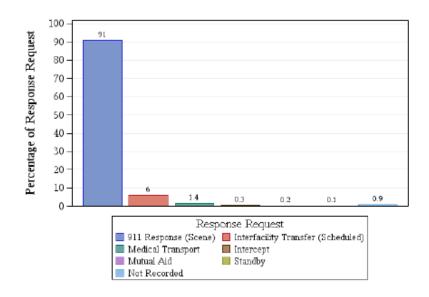
## **Transport Mode from Scene**



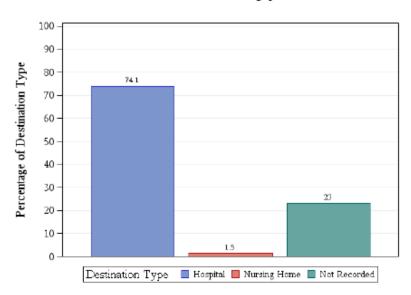
#### **Destination Determination**



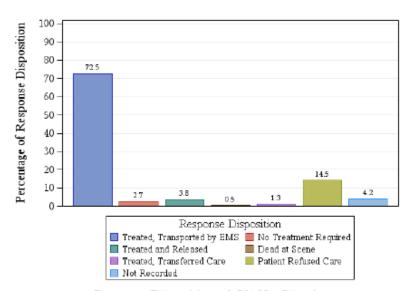
## Response Request



## **Destination Type**



## Response Disposition



Response Disposition <0.5% Not Listed

# QUESTIONS?